

FRESHMAN EDITION

TOIKE OIKE



TOIKE OIKE, TOIKE OIKE, OLLUM TE CHOLLUM TE CHAY,
SCHOOL OF SCIENCE, SCHOOL OF SCIENCE, HURRAY, HURRAY, HURRAY.

Vol. XXXI

Tuesday, September 26, 1939

No. 1

PRESIDENT'S MESSAGE

The green ties are in evidence again; the next edition of Toike Oike will herald their conversion (at least what is left of them) into the little green buttons which mark the Freshman as a Schoolman.

To be a Schoolman is a real distinction in this University. No other Faculty on the campus enjoys a more interesting history, a more enduring tradition, a more efficient staff, a more active student body.

Why? . . . because of a phenomenon known as SCHOOL SPIRIT.

SCHOOL SPIRIT is that intangible something that knits the Faculty of Applied Science and Engineering into an enthusiastic co-operative whole. School Spirit had its birth in the Little Old Red Schoolhouse, the Engineering Building, in which you as Freshmen will be spending the majority of your time during your first year. It was in this ramshackle red brick edifice that "Johnny" Galbraith, our first Dean, began creating Engineers from green-tied individuals decades ago. It was he who fostered the first Engineering Society when our Faculty was known as the School of Practical Science (S.P.S.) and the members of this Society were dubbed "Schoolmen". These Schoolmen had to fight for their proper recognition on the Campus and in the years following, their co-operative enthusiasm was nicknamed "School Spirit". So long as the Faculty has its being this unifying factor will never die.

The Engineering Society is the focal point of School Spirit. Each one of you is a member of this Society and many of you in the years to come, will be chosen by your classmates to govern it. Each one of you is a link in the chain which holds this undergraduate body together. None of you must break tradition by being either weak or missing links. Speaking from experience I can say that you cannot be a true Schoolman nor can you really enjoy School life unless you take an active part in the Engineering Society, for Engineering Society activities are the life blood of School.

(Continued on Page 3)



THE DEAN'S MESSAGE

To the Students in Applied Science
Gentlemen:

The best of welcomes to you all as you return to the University for another year.

We of the Faculty Staff are glad to see you back, because it seems to us like a home-coming to have the new Second, Third, Fourth and Fifth Years back with us; we look upon you as old friends, for we all worked together last year with so much interest in our studies and regard for each other. I feel sure, too, that you of those four years are also glad to get "back home" to continue your studies for, after all, "There is no place like home!"

To you of the new First Year we particularly offer a welcome, not only because we are glad to see you, but because we realize you are glad to be here at the University, and particularly in this Faculty of which we are all so proud. We feel sure you, too, are proud to be members of it, to work in it, to participate in its life and activi-

(Continued on Page 4)

RULES FOR FRESHMEN

The following rules have been drawn up and approved and will be observed by all Freshmen during the time stated.

The first group of rules will be enforced during the whole school year.

1. The first year will supply all fatigue parties required by the Engineering Society Executive. These parties will be detailed by the first year executive.
2. The first year will provide one man daily to report to the President of the Engineering Society for whatever services may be required. Members of the first year executive and Engineering Society Committees are exempt.
3. Freshmen shall NOT use the east door of the Engineering Building.

The following rules must be observed up to the time of the initiation:

1. All Freshmen will wear a green tie of the style approved and supplied by the Supply Department of the Engineering Society. After the initiation a green button will be presented which will be worn for the remainder of the year.
2. All Freshmen will enter the School buildings by the basement doors only.
3. Freshmen will remove their hats on entering all School buildings.

(There will be no hazing.)

The initiation ceremony will be arranged by representatives of the first and second year executive, with the approval of the Faculty and Engineering Society. You will be notified in due time of further details regarding this important function.

Here comes the parade. Where's Aunty?

Upstairs waving her hair.
Gosh, can't we afford a flag?

The Toike Oike

Devoted to the interests of the Undergraduates of the Faculty of Applied Science.

Published Every Now and Then by The Engineering Society of the University of Toronto.

ENGINEERING SOCIETY EXECUTIVE

President S. M. S. Dunn
 1st Vice-President D. Turner
 2nd Vice-President G. F. Kelk
 Secretary J. Leitch
 Treasurer W. Brown
 Director of Publications F. F. Walsh

ATHLETIC ASSOCIATION EXECUTIVE

President G. M. McHenry
 Vice-President J. Buchan
 Secretary-Treasurer F. Dobson

YEAR PRESIDENTS

4T0 D. R. B. McArthur
 4T1 B. Davis
 4T2 B. O. Dick
 4T3 To be elected

CLUB CHAIRMEN

Architectural B. Tedman
 Chemical G. Kennedy
 Civil K. Clawson
 Electrical D. E. McGregor
 Engineering Physics H. Stark
 Mechanical L. A. Patterson
 Debating R. Greig
 Mining and Metallurgical F. Bolton

The Frosh of former years must have been a dapper soul. Engraved in the annals of Toike Oike are rules forbidding Frosh the use of spats and derbies. The rule might be extended to include other items. It is highly embarrassing to be caught in the middle of the campus in purple and tangerine shorts.

Adolph Hitler says that there have been times when starvation was staring him in the face. It couldn't have been very pleasant for either of them.

PLACES THE FROSH SHOULD KNOW

Supply Department . . . Room 19, Engineering Building, just follow the largest crowd,—NOT DOWN TO THE CELLAR. Maintained by the Engineering Society for the convenience of its members. Head man is the 2nd Vice-President of the Engineering Society, George Kelk, and Miss Lowry and Miss Spencer are the two charming young ladies who so ably assist him.

Hart House . . . found by sighting on the tower. Here are located the

Tuck Shop, Great Hall, etc., where meals may be had, and various centres of athletic life. An excellent account of the founding, maintenance and purposes of Hart House may be found on page 58 of the Students' Handbook.

Faculty Office . . . may be found in Room 38 of the Mining Building. Here you will find the Dean, Brigadier-General Mitchell; Secretary Mr. Wilson, and their able assistants who are there to solve your difficulties concerning courses, exams, credits and all the host of regulations that often bewilder the newcomer.

The University Press . . . is between and behind the Chemistry and Physics buildings. This is the place to buy all your textbooks and those few supplies that are not obtainable from the Engineering Society Supply Department.

TO THE MEN OF 4T3

Men of 4T3. You have come to School probably with the idea that you are going to be given quite a going over by those terrible sophomores. That will be entirely up to you! However, one important duty must be undertaken by the first year men. This is unfortunately known as "Fatigue Duty". Nevertheless it is not what its name implies, but is an opportunity for all the first year men to partake actively in the operation of your Engineering Society. This is a Society run by the fellows elected from your own class, and the classics of the other years. After you have been at School for several weeks you will find that most Schoolmen hold some position in the many that are offered on the class executives.

In first year your chance to do your part is to respond willingly and promptly when you are summoned for fatigue duty. This will probably consist in spending one day during the year in doing whatever is required of you in the Engineering Society Store. In place of this you may be asked to help the Director of Publications and Publicity to spread his publicity by way of painting signs, etc. Or again it might be your duty to help with some of the School functions held in Hart House.

Remember fellows, you are now Schoolmen, and every Schoolman does his part.

YOUR SUPPLY DEPARTMENT

The Engineering Society, of which you have recently become a member, runs a Supply Department for your benefit. We are proud to be able to say that your own store is *the best* place to buy your supplies. We have the *right* things, approved by the staff, at low prices made possible by our large purchases. This year a sub-

stantially non-profit policy is in force so that we can guarantee to meet all competition.

We would like to stress that if you are in need of advice regarding supplies, location of rooms, etc., do not hesitate to ask one of the girls, Miss Lowry or Miss Spencer, or any member of the Executive, at the office.

In closing we say, patronize our store, as it is one of the Engineering Society's most worth while undertakings.

GEORGE F. KELK,
 2nd Vice-President.

*They called her fraction—
 she has a lot of odd parts.*

**Get your odd
 parts at the---**
**ENGINEERING
 SOCIETY**
**SUPPLY
 DEPARTMENT**

ATHLETIC ASSOCIATION

The executive of the Athletic Association extends a hearty welcome to the Frosh of 1939-40! As it is the function of this body to administer the Athletic Fund consisting in part of the fees submitted by the Freshmen upon registration, it is natural for them to take an interest in its activities.

Each year the Athletic Fees from Schoolmen provide a sizable source of revenue which is used almost entirely to purchase supplies and equipment as well as trophies for the various Interfaculty Teams. In view of this fact it will be obvious to all Freshmen that it is to their advantage to participate in Interfaculty sports so as to benefit fully from their investment. Aside from this viewpoint, Schoolmen are proud of their record in Interfaculty sports and are anxious to retain their position. So it is the Freshman's duty as well as being to his advantage, to turn out for his favourite sport.

The Athletic Association Executive will attempt to keep you posted as to the latest developments in School athletics at all times. The Association Bulletin Board will be found in the Engineering Building just outside the Engineering Office. To those Frosh interested we say "Watch the Bulletin Board and do your part".

ENGINEERING PHYSICS

Well "gang," here we are back to the old grind once more, and back to another year in the Engineering Physics Club!

As all but our Freshmen will know, Engineering Physics Club has had a 100% membership during both the years of its existence. This record must be held again this year so how's about it, Freshmen?

Your this year's executive want the Club functions to be arranged (within our financial limits) entirely in your interests, so keep this in mind when you select your year representatives and get the right men for this job.

And now, best of luck during the coming year and we hope we'll see you all at our "Club Dinner."

"Hank" Stark,
Chairman.

CIVIL CLUB

Just a reminder to watch for date and details of our first dinner to be held in the second week of October. We hope all the freshmen will attend as it is primarily their function.

The election of Vice-Chairman, Treasurer and Year Representatives will be held this week.

Plans are on foot for a vigorous, entertaining and educational season—all that is needed is your support to insure the success of the club this year.

KEN CLAWSON,
Chairman.

MECHANICALS!

For the benefit of the Freshmen in Mechanical Engineering let me introduce the Mechanical Club. This organization, one of the biggest in the Engineering Society has many and varied objectives of both a social and a technical nature. It strives to give you meetings of interest and value where experienced men from various fields of Mechanical Engineering discuss the development of new products. Contacts with industry are provided for you in visits to production and engineering establishments, power plants, etc.

Freshmen, this club is your best way to get acquainted with the field that you have chosen, and to mix freely with the other years of your course and to take advantage of their experience. Here you will find suggestions for your summer shop work and even actual contacts.

Plans are under way for the first smoker designed primarily for the Freshmen and at which eats are provided.

LORNE PATTERSON,

CHEM. CLUB

Greetings fellows, and may the next seven months bring fun, sport and success to all of us!

Well, once again we are under way and so far we have a flying start. Our plans for the coming year are well advanced. We have speakers, trips and socials all planned.

This year the executive has decided that at the first meeting there will be no speaker but we will merely have a good, old-fashioned "church social" with the First Years leading the dance.

Some say you get what you pay for; well, in our case we pay first, then afterwards it's up to us what we get for our green-backs.

So—come on you chemicals and get your money's worth by attending the monthly meetings and joining in the fun.

GEORGE KENNEDY,

ELECTRICAL CLUB

Here we are back at it again!

The frosh, and we welcome them, are being introduced to the facts of life in the little red schoolhouse.

The sophs, preferring to ignore the depths of integration which lie ahead, are out to see that the frosh learn all they should.

The third year man eyes up his prospects and looks vainly around for a good set of lab reports—for reference purposes.

The fourth year man, having looked forward for three years to this happy day—is back to have his fling.

With the memory of one of its most successful years fresh in the minds of all its members, the Electrical Club looks forward with enthusiasm to its activities this coming year. Our goal is 100% membership and if the spirit which made itself felt in our activities last year prevails, we should attain it. Membership is being kept at the low figure of 50c, which should help matters as far as the pocket books are concerned. So save up your four-bits, fellows, and let's make this the best year the Electrical Club has ever had.

DON McGREGOR..

PRESIDENT'S MESSAGE

(Continued from Page 1)

Our life in general can be classed in two categories . . . work and play. The Faculty staff do a good job in the first division, we, the students, look after division number two. No man can do consistently effective work without recreation. "The full life is the happy life." To be Schoolmen we cannot afford to be lopsided. We cannot afford to work too hard, neither can

we afford to play too hard. The Engineering Society, through its years of experience, provides the requisite amount of instructive and recreational entertainment to aid and abet the reason you have come to School . . . to learn how to become an Engineer.

To learn HOW to become an Engineer is the correct terminology, for no Schoolman, directly upon Graduation, can sell himself to industry as a highly specialized technician. Rather, he sells himself as a man equipped with a technically trained mind ready to adapt himself to production, sales, research or executive positions with equal ease. Industrial executives will tell you that it is not technical knowledge alone that they value in a man, it is his personality, his conduct, and most important, his "ability to handle men". These qualities are those which are cultivated by the Engineering Society. Your technical training is broadened and made more practical by your intelligent attendance at the general meetings held bi-monthly, for which School time is given up willingly by the staff and at which the best speakers, industrial movies and engineering demonstrations available are provided. Your personality and conduct are enhanced by your attendance at the three major Engineering Society events, the School Dinner, School Nite, and School At-Home, your year dances, and your departmental club meetings. Your "ability to handle men" is developed in the executive positions offered by the Engineering Society and its affiliated clubs and committees.

It has been the custom of past presidents to regale you Freshmen with a carload or two of advice, but advice, like castor oil, is easy to give but hard to take. My only advice to you is to do your work regularly and conscientiously (no one will MAKE you do your work), take advantage of the opportunities offered you by the Engineering Society and its Athletic branch, and be so busy that you have no time for idleness and brooding. Get to know your Engineering Society executive personally, read the Constitution and By-laws, and it might be a good idea to immediately read Paul C. McGilligan's tips to Canadian undergraduates, "Between Lectures", available at the Supply Department.

To you, the men of the emerald ties, the very best in everything in this new School year is my wish. If I can be of any help to you in any way during the first few weeks, drop into the Engineering Society office during lunch hour and introduce yourselves. . . . I'm usually there.

Yours in "SCHOOL SPIRIT",
Syd DUNN,

THE DEAN'S MESSAGE

(Continued from Page 1)

ties and above all to commence to prepare yourselves for such splendid and interesting professions as Engineering and Architecture.

Let us be sure that this year, we, you—all of us—keep up the high academic standard of our predecessors. We must do better than that. "As good as" is not enough these strenuous days in our changing world. We ought all to aim at "a little bit better than", and if we all put our backs into it—staff and students alike—we can accomplish it. Let us go all out for it!

You come back under greatly changed conditions. We are at war. A war, not of our making but one we are bound to embark on for the defence of Canada and of the Empire. A war it will be for the preservation of civilization and all that we hold dear in our high ideals and our own standards of life, for which our fathers fought in the last great war. It is the same enemy of civilization, the same enemy of peaceful living, the same enemy of Christianity that we now have again to fight to maintain those ideals and high principles which, in this great Empire, we have cherished through all the centuries. We have still to fight the same barbaric and ruthless enemy as before, led by cunning, unprincipled men who will stop at nothing to gain their object of oppression and destruction.

What are the students of this great University going to do to help in this defence of high principles, in the defence of your country and of your Empire?

What will you men of the Senior Years and of the Junior Years do here at College? I am sure I know what you will do. You will throw yourselves into your engineering studies harder than ever, you will make every effort to fit yourselves for taking your part in this struggle by becoming qualified as quickly as possible and as completely as you can, for taking up the share which applied science will be called upon to contribute.

You of the Fourth Year, so near to completing your courses, will throw yourselves into your college work to be ready to help as soon as you can get out, wherever and whenever that help is needed. You of the Third Year will urge yourselves all the harder to soon follow your comrades of the Senior Year. You of the Second Year, and you of the incoming First Year, will drive and discipline yourselves to get on with your applied science education so that in due time you will be able to take your places in the great engineering effort which Canada has to

undertake in wartime or when, the war over, soon let us pray, we are called on to recover and continue to build up our country. You will be greatly needed after war's destruction of resources and the dislocation of business, industry, and life in general.

There, now, gentlemen, are the things that you all are going to strive for and all of you, the Thousand Men of Applied Science, will surely put your backs into it. You will do it for the Empire, for Canada, for your homes, and for yourselves.

Engineers will be greatly needed in Canada, more needed now than ever before. This is an engineers' war and all branches of the profession will be called to help. It is a mechanized war, and in that sense it will be much different from the last, which also was an engineers' war. This time more than ever, and especially for Canada, it will be a war of Civil, Mining, Mechanical, Electrical, Chemical, and Metallurgical engineers, and those in Engineering Physics, and Architecture, all working together just as you all work together here at "School".

Now with this new and difficult situation confronting us, let us all keep cool, keep steady and work hard. The engineer who loses his head, gets excited and rattled, will just not get along. Get down to your work early, get down now, and keep steadily at it and you will be sure to win, whether it is knowledge, education, or war.

Above all, do not become restless or impatient about service in the war. Do not rush off from your college course and enlist for war service in Canada or overseas. At least do not do it yet for a while. Wait and see where and how you are wanted for your special technical education. It is not advisable to unduly dislocate college education in your branches, not for the present at any rate. (Read the front page article "Globe and Mail", Friday, September 22nd, copies of which have been put up on the notice boards. The Department of National Defence announces that they have "placed restrictions upon recruiting—particularly those who have university training in Medicine, Engineering, Agriculture, and other Sciences".)

Now, a word on another note; I ask you to think about your coming year's work, not only in lecture room and laboratory, but in your student activities. Because there is a stiff war on do not get downhearted, discouraged or despondent even when news is not very good. Keep your heads high, chest out, muscles hard, brains alert, and with it all, keep cheery. So, make sure about your P.T. Keep up your athletics, keep your dances and your fun

going as "Schoolmen" can and do. Give what you can to the Engineering Society and other student activities for all must go on as usual. But, in doing all these things, remember we do not know what is ahead of us and you must conserve your finances as well as other resources. Have all the fun you can spare the time for, but do it as economically as you can. Some day you and your successors hereabouts may need every cent to keep things going.

With all these things one can see that a careful perspective must be obtained, an even balance maintained, between the things that matter these coming days and the things that do not. Watch the balance and do not let the swings get too great or gain momentum. Keep steady and cool. Best wishes to you all for a successful year.

C. H. MITCHELL,
Dean.

23rd September, 1939.

DRAFTING SUPPLIES

The following list of supplies can be purchased at the Supply Department:

1 Drawing Board—23" x 31"	\$1.40	1.6
1 Tee Square—30"	1.95	2.1
1 Tee Square—10"	.70	.7
1 Set Square 14" 60°	.90	1.5
1 Set Square 10" 45°	.60	1.0
1 Dozen Thumb Tacks	.05	.6
1 Fractional Scale	.45	.6
1 Decimal Scale	.45	.6
1 Pencil Pointer	.10	.1
1-H, 2H, 3H Pencil	.23	.2
1 Pencil Rubber	.13	.1
1 Ink Rubber	.08	.1
3 Bottles Ink (Black)	.25	.2
2 Bottles Ink (Red and Blue)	.40	.4
1 Drawing Set	6.25	6.5
4 Sheets Drawing Paper	.50	.5
1 Portfolio	.95	.9
1 Dusting Brush	.50	.5
1 Penholder	.05	.1
6 Pen Nibs, No. 312 and No. 303	.10	.1
1 Erasing Shield	.20	.2
2 Sketch Problem Covers	.05	.1
1 Sketch Problem Pad	.08	.1
1 Leather Notebook	3.75	3.7

Slip Case ~~27.60~~ ^{16.50} ~~13.50~~ ^{10.25} ~~7.25~~ ^{7.50} ~~2.50~~

The above list is solely to guide you in purchasing the materials which you will require almost immediately. The leather notebook listed is the most popular of the five styles in stock. It has a serviceable open cover of full grain leather. Other things, such as text books, lab coats, etc., you will also require. The Supply Department carries a large stock of refills, printed notes, pencils, and so on, but your text books may be obtained from the Students' Book Department, in behind the Physics Building, at reduced rates. The S.A.C. in Hart House has a book exchange, where second-hand books may be obtained at a very reasonable price. However, do not buy your books until each lecturer has told you what you will require.